

AMENDMENTS TO THE SPECIFICATION

Please delete paragraph [0012.1].

Please replace paragraph [0027] with the following amended paragraph:

[0027] Examples of plasticizers and their solubilities as determined by the above test are set forth in Table 1. A value of 4 or greater over the temperature indicates that this plasticizer is candidate for use in the present invention.

Table 1 – Solubilities of Plasticizers

TEMPERATURE (°C)	23	75	100	140	150	160
Adipic Acid Derivatives						
Dicapryl adipate	1	1	1	1	2	2
Di-(2-ethylhexyl adipate)	1	1	1	1	2	2
Di(n-heptyl, n-nonyl) adipate	1	1	1	1	2	2
Diisobutyl adipate	1	3	3	3	3	4
Diisodecyl adipate	1	1	1	1	1	1
Dinonyl adipate	1	1	1	1	1	2
Di-(tridecyl) adipate	1	1	1	1	1	1
Azelaic Acid Derivatives						
Di-(2-ethylhexyl azelate)	1	1	1	1	2	2
Diisodecyl azelate	1	1	1	1	1	1
Diisooctyl azealate	1	1	1	1	2	2
Dimethyl azelate	3	4	4	4	4	6
Di-n-hexyl azelate	1	1	2	2	3	3
Benzoic Acid Derivatives						
Diethylene glycol dibenzoate (DEGDB)	4	4	4	6	6	6
Dipropylene glycol dibenzoate	3	3	4	4	4	6
Propylene glycol dibenzoate	1	3	4	6	6	6
Polyethylene glycol 200 dibenzoate	4	4	4	4	6	6
Neopentyl glycol dibenzoate	0	3	3	3	4	6
Citric Acid Derivatives						
Acetyl tri-n-butyl citrate	1	1	1	2	3	3

TEMPERATURE (°C)	23	75	100	140	150	160
Acetyl triethyl citrate	1	2	2	2	3	3
Tri-n-Butyl citrate	1	2	3	3	3	3
Triethyl citrate	3	3	3	3	3	3
Dimer Acid Derivatives						
Bis-(2-hydroxyethyl dimerate)	1	1	1	1	2	3
Epoxy Derivatives						
Epoxidized linseed oil	1	2	2	2	3	3
Epoxidized soy bean oil	1	1	1	1	1	2
2-Ethylhexyl epoxytallate	1	1	1	1	3	3
Fumaric Acid Derivatives						
Dibutyl fumarate	2	2	3	3	3	3
Glycerol Derivatives						
Glycerol Tribenzoate	0	0	6	6	6	6
Glycerol triacetate	2	3	3	3	3	4
Glycerol diacetate monolaurate	1	2	2	2	2	4
Isobutyrate Derivative						
2,2,4-Trimethyl-1,3-pentanediol, Diisobutyrate	1	1	1	1	3	3
Texanol diisobutyrate	1	2	2	2	2	4
Isophthalic Acid Derivatives						
Dimethyl isophthalate	0	5	5	6	6	6
Diphenyl isophthalate	0	0	0	0	0	0
Di-n-butylphthalate	2	3	3	3	3	3
Lauric Acid Derivatives						
Methyl laurate	1	2	3	3	3	3
Linoleic Acid Derivative						
Methyl linoleate, 75%	1	1	2	3	3	3
Maleic Acid Derivatives						
Di-(2-ethylhexyl) maleate	1	1	2	3	3	3
Di-n-butyl maleate	2	3	3	3	3	3
Mellitates						

TEMPERATURE (°C)	23	75	100	140	150	160
Tricapryl trimellitate	1	1	1	1	1	1
Triisodecyl trimellitate	1	1	1	1	1	1
Tri-(n-octyl,n-decyl) trimellitate	1	1	1	1	1	1
Triisonyl trimellitate	1	1	1	1	1	1
Myristic Acid Derivatives						
Isopropyl myristate	1	1	1	2	3	3
Oleic Acid Derivatives						
Butyl oleate	1	1	1	2	3	3
Glycerol monooleate	0	1	1	1	3	3
Glycerol trioleate	1	1	1	1	2	2
Methyl oleate	1	1	2	2	3	3
n-Propyl oleate	1	1	1	2	3	3
Tetrahydrofurfuryl oleate	1	1	1	2	3	3
Palmitic Acid Derivatives						
Isopropyl palmitate	1	1	1	1	2	3
Methyl palmitate	0	1	1	2	3	3
Paraffin Derivatives						
Chloroparaffin, 41% C1	1	1	2	2	2	3
Chloroparaffin, 50% C1	1	2	3	3	3	3
Chloroparaffin, 60% C1	1	5	6	6	6	6
Chloroparaffin, 70% C1	0	0	0	0	0	0
Phosphoric Acid Derivatives						
2-Ethylhexyl diphenyl phosphate	2	3	3	3	4	4
Isodecyl diphenyl phosphate	1	2	3	3	3	3
t-Butylphenyl diphenyl phosphate	1	3	3	4	6	6
Resorcinol bis(diphenyl phosphate) (RDP)						
100% RDP	1	1	1	3	3	3
Blend of 75% RDP, 25% DEGDB (by wt)	1	2	2	4	4	5
Blend of 50% RDP, 50% DEGDB (by wt)	1	2	5	6	6	6
Blend of 25% RDP, 75% DEGDB (by wt)	1	3	3	6	6	6
Tri-butoxyethyl phosphate	1	2	3	4	4	4

TEMPERATURE (°C)	23	75	100	140	150	160
Tributyl phosphate	2	3	3	3	3	3
Tricresyl phosphate	1	3	3	4	6	6
Triphenyl phosphate	0	4	4	6	6	6
Phthalic Acid Derivatives						
Butyl benzyl phthalate	2	3	3	6	6	6
Texanol benzyl phthalate	2	2	2	2	2	4
Butyl octyl phthalate	1	1	2	2	3	3
Dicapryl phthalate	1	1	1	1	2	2
Dicyclohexyl phthalate	0	1	2	2	4	5
Di-(2-ethylhexyl) phthalate	1	1	1	2	3	3
Diethyl phthalate	4	4	4	6	6	6
Dihexyl phthalate	1	2	3	3	3	3
Diisobutyl phthalate	1	3	3	3	3	5
Diisodecyl phthalate	1	1	1	1	2	2
Diisoheptyl phthalate	1	1	2	3	3	3
Diisononyl phthalate	1	1	1	1	2	3
Diisooctyl phthalate	1	1	2	2	3	3
Dimethyl phthalate	1	5	6	6	6	6
Ditridecyl phthalate	1	1	1	1	2	3
Diundecyl phthalate	1	1	1	2	2	2
Ricinoleic Acid Derivatives						
Butyl ricinoleate	1	1	2	3	3	3
Glycerol tri(acetyl) ricinoleate <u>ricinoleate</u>	1	1	1	2	1	1
Methyl acetyl ricinoleate <u>ricinoleate</u>	1	1	2	3	3	3
Methyl ricinoleate <u>ricinoleate</u>	1	2	3	3	3	4
n-Butyl acetyl ricinoleate <u>ricinoleate</u>	1	1	1	2	3	3
Propylene glycol ricinoleate <u>ricinoleate</u>	1	1	3	3	4	4
Sebacic Acid Derivatives						
Dibutyl sebacate	1	2	3	3	3	3
Di-(2-ethylhexyl) sebacate	1	1	1	2	2	3

TEMPERATURE (°C)	23	75	100	140	150	160
Dimethyl sebacate	0	4	4	6	6	6
Stearic Acid Derivatives						
Ethylene glycol monostearate	0	1	2	3	3	3
Glycerol monostearate	0	0	1	2	2	2
Isopropyl isostearate	3	3	3	6	6	6
Methyl stearate	0	1	2	2	2	3
n-Butyl stearate	1	1	2	3	3	3
Propylene glycol monostearate	0	1	1	2	2	3
Succinic Acid Derivatives						
Diethyl succinate	3	3	4	5	6	6
Sulfonic Acid Derivatives						
N-Ethyl o,p-toluenesulfonamide	2	5	6	6	6	6
o,p-toluenesulfonamide	0	0	0	6	6	6

Key:

0 = Plasticizer is a solid at this temperature

1 = Plasticizer is liquid, yet nothing happening to the film

2 = film has begun to haze

3 = film has swollen

4 = film has begun to change as disintegrating off and/or liquid becoming hazy

5 = no longer a film, liquid is hazy

6 = liquid is clear